

SEQUENCE LISTING



<110> NAKAJIMA, Toshihiro
 AMANO, Tetsuya
 TSUCHIMUCHI, Kaneyuki
 YAMAZAKI, Satoshi
 YAGISHITA, Naoko

<120> Synoviolin promoter

<130> L7350.0006

<140> 10/569,330

<141> 2006-02-21

<150> PCT/JP2004/012424

<151> 2004-08-23

<150> JP2003-297913

<151> 2003-08-21

<160> 13

<170> PatentIn version 3.3

<210> 1

<211> 3046

<212> DNA

<213> Mus musculus

<400> 1
 gcaagagacc ttattttggt tttcgagaca gggtttctct gtgtagccct ggctgtccta 60
 gaactcactc tgtagaccag gctggcctcg aactcagaaa tccgcctgcc tctgcctccc 120
 gagtgctggg attaaaggta ggcgccacca cgcccagctt tttttttttt agataggatc 180
 tcactctata gctgtacgct ggcctcagat ttatgatgct cttcctgcct cagtctccca 240
 attttctggg attgtaggag tgggccacta tgctctgctc actacatgat ttcagagggt 300
 gagtagacct gaactgaaga ccagacaagg gagccctccc tcgacatctt ggggccaggg 360
 aagttgaagc cataggatca gaggaaatgt ggcaagaaaa aaggccaaca tggacacaga 420
 acttaaataa aaacagacag aggaagtaag acagatatat acctggggga gaggagggat 480
 tgccacaaaa tgtaggagat tttcaagaat gggggaggat gagtgtgtag ggttaaagg 540
 agccagtaga agttcatagc tagccttatg gaggaaggaa aggggagcca tctcgggatg 600
 ttaactgtta aagacaacag gtggtggtga agatggctga gaccaagagc acagggctga 660
 ggggcagaca ggcactgaca ctgctaccct ttaatacagt tcctcctggt gtgatcccca 720
 accataatta cttcgttgct acttcataac tgtaattttg ctagttatga attgtaagta 780
 aacgtctgat atgcaggata tctcatttgt gaccctgtg taacggtttg attcccaaag 840
 ggcttacgac tcacagggtg agagccagcc actgccttaa agtcgtctag aatcagtttt 900

ctttcttttt	tgacagacaa	gatgtttaat	tccgttgtac	tgaaggaaag	ccattttatg	960
tatttttctt	aagtgtctta	tcagtaatga	caattctgaa	agccccctgt	ttatatattta	1020
acaacacagt	cacctccggt	tctgtattca	ctgtccgtgt	tgtgactccc	acagtataaa	1080
ttcctccagt	tgatcttcat	gaattcttat	atttgatccc	cccccccctt	aggcctctga	1140
attccgagtg	agtccgagtt	aaaaatggga	ggagcaccct	ctagctgata	aacctgggta	1200
atgaggtgtc	cgctttcagt	ttccattctg	tacgcgacta	tactgcttgt	gtgagcccta	1260
acagacagaa	tcagctcaga	acaaagggtc	tggctatctc	ccagggatga	acacgcacgc	1320
cgactgagct	tttgggggtg	tgaaaagtca	acgccttcgc	acagaactct	ccaccccaac	1380
ctagaaataa	ctggcggttct	gttttatgtc	agtccggaca	cgcaagcact	gctccttttg	1440
cgggccccgt	aagcatcccc	ccaggcggga	tagggatccc	cggcctatgg	actgcgcttt	1500
ctcagctggc	atccagctgc	cttggcaccc	agtccggggc	cactctgcct	acagacccta	1560
gcaaccactc	acctgctttt	ctttccctat	aggccagaaa	tttttccttt	cttttctcat	1620
tgggtccgct	aacttttatcg	caaccaatcg	gcggtacacg	ggaacaaact	cactcctaca	1680
caacctgcgt	tggggggagg	taacctggga	agacctatat	ctgttttctg	caccgctatt	1740
tttttccgag	aagcacttaa	cttcttaccg	tgtcgtagct	atccctggaa	tgaggcgctt	1800
acacatttta	tttctttcat	gcctgacata	aagtctggcc	cttgctcgct	cctgcccccc	1860
gtccaaatgg	ctcggccccg	ggaacgcccc	tcttccaggc	acattgagag	ccggagtctt	1920
ggagggagtt	tagggtggtg	attctacaac	ggcgactagc	aagtggcggg	cttcagccct	1980
ttcccgtgc	tctcctggtc	gcgaccacac	gtcacagctc	tcgctcgttc	cggttgctcg	2040
cgcagggggg	ggggagtgtt	gttaaccgga	gcggctgccg	cagtcgcggt	gattgagcgt	2100
actccgccgc	gccccgcgcc	gccggaagtg	aggtgtctta	ccccgaagt	tccggttcgc	2160
aggggggtgg	gagtgttgtt	aaccggagcg	gctgccgcag	tcgcggtgat	tgagcgtgct	2220
cgcggcgctg	ggctcctggt	gagtgggcct	ggtcctgatt	ggggttgggg	ggtcggcgtc	2280
taggaccttg	tcctttgggg	tcactgcgat	cagcccgcgc	cgctgcgttc	ggccgccagt	2340
tttcggcctg	tcagatggct	ggagacctta	ggcggcgggc	cggccaccgt	tccagaggcc	2400
gggccccgcc	tgcgaggttc	gcaactccta	gcgttcacag	gtgcgcgact	gtgaggcgac	2460
ctgactgggt	ctcagccccg	ccgccgcacc	ctggcggtcg	gccgtttctc	cggttctcag	2520
agtggacact	gctggggggc	gggggggggg	cagggttcca	gactgacgta	ccccgatggg	2580
cgcgcgtctg	cgctgaccac	cctggcacag	ctgtcactgg	ttgtgtcgcc	ttctcaagct	2640
gtgccctctg	caccttgcc	cctccacccc	tggcggggcc	agcgaacctg	cctctaaagc	2700
ctatcatccc	agtccttca	gagggtcagc	ggtggcagcc	cccctcctcc	taactttgcc	2760

tcagtgaactc	cctagaggag	gcgcccttggc	agacagcgtg	gaagagccct	agatttgaaa	2820
cgagattgat	ccaagttcta	ggccttgcac	cagtgtgagc	ctctaacccc	tttgagtcct	2880
agtttctcgt	ttgtgaaaca	gggagtatat	gctgttttga	atctaattggc	tgtcaagggtg	2940
aaatgagtg	ttgcccttac	actctgccag	ggactgtgct	aggtttacat	agtgtggata	3000
tcacaaatgt	cattttcctt	gtgcaggtct	ctggggccagg	gcgatg		3046

<210> 2
 <211> 3092
 <212> DNA
 <213> Homo sapiens

<400> 2	
ttggctcata	acctcacttc ctttaagtct ttgctcaa
acctcacttc	ctttaagtct ttgctcaa
ctttaagtct	ttgctcaa
ttgctcaa	gtcaccttct caaggaagct
gtcaccttct	caaggaagct
caaggaagct	
60	
tacccgatta	tcctcgctga tactgcaacc agcttcaagt
tcctcgctga	tactgcaacc agcttcaagt
tactgcaacc	agcttcaagt
agcttcaagt	accccaccac atcctgatcc
accccaccac	atcctgatcc
atcctgatcc	
120	
cctttattct	gttctacttt tttcctatag cactgatcat
gttctacttt	tttcctatag cactgatcat
tttcctatag	cactgatcat
cactgatcat	cttccagcgt attagatttt
cttccagcgt	attagatttt
attagatttt	
180	
tcacttatgt	ctgtgggttg ctgtcacatc tactaggata
ctgtgggttg	ctgtcacatc tactaggata
ctgtcacatc	tactaggata
tactaggata	agctccacaa aggtagagat
agctccacaa	aggtagagat
aggtagagat	
240	
ctttattttg	ttcactgaca tcctaagtcc ctagaacagg
ttcactgaca	tcctaagtcc ctagaacagg
tcctaagtcc	ctagaacagg
ctagaacagg	agacacttga tccatatttg
agacacttga	tccatatttg
tccatatttg	
300	
tagactaact	gaataaatga cttaattacc agtttgatg
gaataaatga	cttaattacc agtttgatg
cttaattacc	agtttgatg
agtttgatg	tgggggcaga tagtgagcat
tgggggcaga	tagtgagcat
tagtgagcat	
360	
gatgcccgtt	tccggagctg ggggtgcagac agtgtctagg
tccggagctg	ggggtgcagac agtgtctagg
ggggtgcagac	agtgtctagg
agtgtctagg	gacactgaac tgttttaaaa
gacactgaac	tgttttaaaa
tgttttaaaa	
420	
gcaggataga	tcccggctgg agaccacaca aggaaatcat
tcccggctgg	agaccacaca aggaaatcat
agaccacaca	aggaaatcat
aggaaatcat	cagcacctgg gtcaggggct
cagcacctgg	gtcaggggct
gtcaggggct	
480	
ggactggagc	agaggaaatc atgcaggaaa agtaaagaga
agaggaaatc	atgcaggaaa agtaaagaga
atgcaggaaa	agtaaagaga
agtaaagaga	aggacatcag gtaaagagaa
aggacatcag	gtaaagagaa
gtaaagagaa	
540	
gaggacacat	gcatagccag agagaaaaga ggagcagagg
gcatagccag	agagaaaaga ggagcagagg
agagaaaaga	ggagcagagg
ggagcagagg	catgtggatc acagaagctt
catgtggatc	acagaagctt
acagaagctt	
600	
agggaggaga	ctttcaagaa ggggagagag gttgagtcaa
ctttcaagaa	ggggagagag gttgagtcaa
ggggagagag	gttgagtcaa
gttgagtcaa	gcaagggctg aaagccaacc
gcaagggctg	aaagccaacc
aaagccaacc	
660	
attggatgca	gtcactagaa agttacagat aggcaagggt
gtcactagaa	agttacagat aggcaagggt
agttacagat	aggcaagggt
aggcaagggt	ttgtgggtca cgcctgtaat
ttgtgggtca	cgcctgtaat
cgcctgtaat	
720	
cccaacacct	tgtggggctg aggtgggagg atcgcttgag
tgtggggctg	aggtgggagg atcgcttgag
aggtgggagg	atcgcttgag
atcgcttgag	cccgggaggt cgaggctgca
cccgggaggt	cgaggctgca
cgaggctgca	
780	
atgagccctg	atggcgccaa tgcactccag cctgggcgac
atggcgccaa	tgcactccag cctgggcgac
tgcactccag	cctgggcgac
cctgggcgac	agagcaagac cctgtcgcaa
agagcaagac	cctgtcgcaa
cctgtcgcaa	
840	
aaattaataa	ataaataaat aaaaagaaaa gggggaaaaa
ataaataaat	aaaaagaaaa gggggaaaaa
aaaaagaaaa	gggggaaaaa
gggggaaaaa	aagttatacg tggccttacg
aagttatacg	tggccttacg
tggccttacg	
900	
gggaagccaa	ctctgactgg ttataagctg aaactgtcaa
ctctgactgg	ttataagctg aaactgtcaa
ttataagctg	aaactgtcaa
aaactgtcaa	gtcaacaggt ggcaggggaag
gtcaacaggt	ggcaggggaag
ggcaggggaag	
960	
atggctgaga	ccaacagcac agagatttag aggcagacag
ccaacagcac	agagatttag aggcagacag
agagatttag	aggcagacag
aggcagacag	acctggcgcc aatcctagga
acctggcgcc	aatcctagga
aatcctagga	
1020	
cagggttttg	taagcctttg aatttcaatt gccccacgtt
taagcctttg	aatttcaatt gccccacgtt
aatttcaatt	gccccacgtt
gccccacgtt	tcgggggagg gggtagcacc
tcgggggagg	gggtagcacc
gggtagcacc	
1080	
ccctagctca	taaacccttag tgattgatga ttaaatagaga
taaacccttag	tgattgatga ttaaatagaga
tgattgatga	ttaaatagaga
ttaaatagaga	tgacggagga aaacgcaagg
tgacggagga	aaacgcaagg
aaacgcaagg	
1140	
cacaaagtgg	atgcattagc tccattttgt taatcagcag
atgcattagc	tccattttgt taatcagcag
tccattttgt	taatcagcag
taatcagcag	gcttagttgg ctgcgaccca
gcttagttgg	ctgcgaccca
ctgcgaccca	
1200	
gacacgaact	aaaatacagt gcagcccagg accagtgggg
aaaatacagt	gcagcccagg accagtgggg
gcagcccagg	accagtgggg
accagtgggg	gtcttgctta tggctcagag
gtcttgctta	tggctcagag
tggctcagag	
1260	
ctgaacaaca	catgggcagc aaaatcagac actgagatgc
catgggcagc	aaaatcagac actgagatgc
aaaatcagac	actgagatgc
actgagatgc	gggcaggcct gcgacgctga
gggcaggcct	gcgacgctga
gcgacgctga	
1320	

agtcaattcc	tttgaacaaa	cagaacactt	ccgtcccaag	attagcagga	attaatctcc	1380
cagtctcggg	tacacctggg	tgtccctccc	tgtcctggcg	cggcaaacgt	tcccggaggc	1440
cagccagggg	tactcgcgcc	aaggactgag	ctttccctac	tctcagccaa	ctggagcggg	1500
accagggcct	aggcaacgca	gctgtccgcc	cctaacaacc	actcacctgc	tttccccttt	1560
ctataggcca	gcaaaggtag	attctttttc	ttattggggc	gcgtaactta	tcgcaaccaa	1620
tcagtggcag	ccacgggacc	caactcactc	ccacacaact	tgtgggggtg	atcatggaga	1680
agacaaatth	ttgttttccg	catccagttc	tctcagagag	caccgtatth	gtcaaactgt	1740
tgtgactctc	cctaaatgth	taagaaaaca	tttcattccc	ctcaggcttg	tatagtctgt	1800
ccctggccta	ctccccgctc	caggtggtag	agcccgcaag	cggctcccct	tcccagctgc	1860
tcgcggggcc	gagtccccca	gtccgaggag	gccactcagc	gcaggagcca	taccatctgt	1920
gactaataaa	taataggggg	acctccgact	ccccctgtt	gccttattac	cttccgacca	1980
cctctcggac	ctcttgccca	gcccttcccc	gtagacatca	cccagatac	ggtgggtgaca	2040
ccattgctat	gggcccacgt	agggcgagc	gcgagccagg	gcaggacgca	cttgggtacga	2100
cccacgccc	gccccgcgcc	gccggaagt	aggtgtctga	ccccgaagt	tccgggtcgc	2160
aggggggtgg	gagtgttgth	aaccggagg	gcagccgcag	tcgcgcggat	tgagcgggct	2220
cgcggcgctg	ggttcctggg	gagtggggcg	aagtctggcc	cgagttgtgg	ttggggtcgg	2280
gacccgaacc	ttccccttga	ggtctccgga	gtcggcacgc	ccctcagccc	cgccgcacgc	2340
tttcggcctg	tcagctggcc	ggagacctca	gacgccgggt	cggccgctth	gctcaagcct	2400
gggcccctgc	tgcgacgccc	gcaactcctg	gtgctcacag	gtgcgcggcc	gcgagggcga	2460
cccggctcct	cccgtcccg	tgctgctctc	tcccgccccg	ctgtttttgt	ggtgctctga	2520
gttgacacta	ctccgggggt	cgggggaccc	caggattcca	ggctgacgth	ccccgcccgc	2580
tcccgaggg	cgggcgtccg	aactgcccac	cctaacacag	ctgtcaccgg	cgctgtcgcc	2640
tgcccagcct	gctatcctct	gtgccttggc	tgctctcagc	cctggctgcg	cattcccgcc	2700
cctggagcag	atttctgctg	ttgcctccca	ccccatcttc	tccaccggag	ggtcagcggg	2760
gcagctcccc	ctcctccaac	attgcagctt	ttcctcatca	cctccctaga	ggaggcggct	2820
tggcaggcag	cgtggaaaga	gccctagatt	tgaagcaaga	ctgaccaggg	ttccaggcct	2880
tgcgtcagtg	tgatcactta	acccttctga	gtctaatttg	taaaatgggg	tagcgtaagc	2940
tattctttgt	ctgatgattt	cgagggcgaa	atgtgatttc	ccccccactt	tctcctatga	3000
attgaggctg	tgccaggcac	cgggctatth	tgcacagcac	gagcatcaca	taagttatth	3060
tcttgcccca	tgcaggctct	cgggccaggg	ca			3092

<210>	3	
<211>	19	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic DNA	
<400>	3	
	gcgccgccgt aagtgaggt	19
<210>	4	
<211>	20	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic DNA	
<400>	4	
	aagtgagttg tcttaccccc	20
<210>	5	
<211>	20	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic DNA	
<400>	5	
	actccgccaa gccccgcgcc	20
<210>	6	
<211>	16	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic DNA	
<400>	6	
	gcgccgccgg aagtga	16
<210>	7	
<211>	16	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic DNA	
<400>	7	
	gcgccgccgt aagtga	16

<210> 8
<211> 101
<212> DNA
<213> Homo sapiens

<400> 8
cccacgccgc gccccgcgcc gccggaagtg aggtgtcttt acccccgaag ttccggttcg 60
caggggggtgg ggagtgttgt taaccggagg ggcagccgca g 101

<210> 9
<211> 101
<212> DNA
<213> Mus musculus

<400> 9
actccgccgc gccccgcgcc gccggaagtg aggtgtctct acccccgaag ttccggttcg 60
caggggggtgg ggagtgttgt taaccggagc ggctgccgca g 101

<210> 10
<211> 11
<212> DNA
<213> Homo sapiens

<400> 10
gccggaagtg a 11

<210> 11
<211> 11
<212> DNA
<213> Artificial

<220>
<223> Synthetic DNA

<400> 11
gcctgaagtg a 11

<210> 12
<211> 10
<212> DNA
<213> Homo sapiens

<400> 12
gccgcgcccc 10

<210> 13
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Synthetic DNA

<400> 13
gccaagcccc

10